

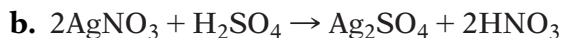
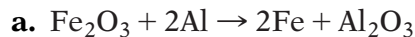
REVIEW

5

SECTION 5.1

The Nature of Chemical Reactions

1. **Identify** the reactants and products in each of the following chemical reactions.



2. **Explain** where the energy to cook food comes from when a gas stove burns natural gas, CH_4 , and oxygen, O_2 .

3. **Describe** three signs that a chemical reaction has taken place, and give an example of each sign.

4. **Identify** the elements present in the original compound using the following statement of a chemical reaction. A white solid is heated and gives off carbon dioxide, CO_2 , and water, H_2O , leaving behind sodium carbonate, Na_2CO_3 .

5. **Contrast** endothermic and exothermic reactions.

6. **Predict** the products of the decomposition reactions of the following substances:

a. mercury oxide, HgO

b. silver oxide, Ag_2O
